

Features

- Recommended for reflow soldering
- Rotor design compatible with pick and place and automatic adjustment equipment
- 3 mm size meets EIA/EIAJ standard trimmer footprint
- RoHS compliant* see processing information on RoHS compliant surface mount trimmers

■ For trimmer applications/processing guidelines, click here

- 3 mm SMD Trimpot® Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range100 ohms to 1 megohm (see standard resistance table) Resistance Tolerance±25 % std. Absolute Minimum Resistance ≤ 1 K Ohms20 ohms max.

>1 K Ohms......2 % max. of TR Contact Resistance Variation .. 5 % max. Resolution Essentially infinite Adjustment Angle200 ° min.

Environmental Characteristics

Power Rating (50 VDC max.)

Temperature Range ... -40 °C to +100 °C Temperature Coefficient ... ±250 ppm/°C Humidity-40 °C, 95 %RH TRS max.±5 % Load Life

......@ 70 °C rated power 1000 hours TRS ±5 % Rotational Cycling20 cycles TRS ±5 %

Physical Characteristics

Torque...... 0.98-11.76 mN-m max. Mechanical Angle* Continuous; 270 ° ±20 ° Marking...... Part marking code Standard Packaging.. 2000 pcs./7 " reel Adjustment Tool......H-90

*The lower limit of the rotational angle standard is 250°, but there is non-valid rotational range of 10 % or less on each end.

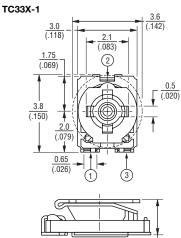
Aqueous cleaning not recommended.

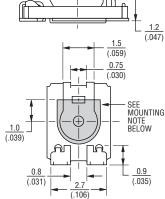
How To Order TC33 B 103 E Model Style Standard Product Indicator TC33B: -1 = Single Slot Bottom Adjust TC33X: -1 = Continuous Rotation -2 = Rotational Stop Resistance Code **Embossed Tape Designator**

E = 2000 pcs./7 " Reel (B Style) E = 2500 pcs./7 " Reel (X Style)

G = 9000 pcs./13 " Reel (X Style)

Product Dimensions

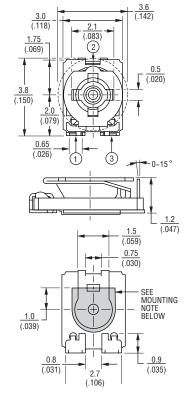




Mounting Note:

The gray area can be used to apply cement to hold the unit in place during board processing, if required

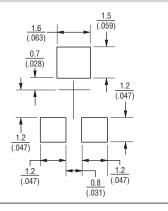
TC33X-2

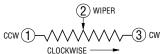


Mounting Note:

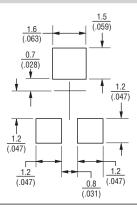
The gray area can be used to apply cement to hold the unit in place during board processing, if required,

Recommended Land Pattern





Recommended Land Pattern



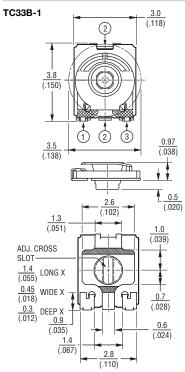
DIMENSIONS: (INCHES) TOLERANCES: ± **EXCEPT WHERE NOTED**

Customers should verify actual device performance in their specific applications.

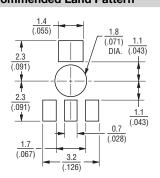
^{*}RoHS Directive 2002/95/EC Jan 27, 2003 including Annex. Specifications are subject to change without notice.

TC33 - 3 mm SMD Trimpot® Trimming Potentiometer BOURNS

Product Dimensions (Continued)



Recommended Land Pattern

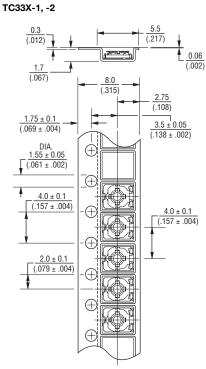


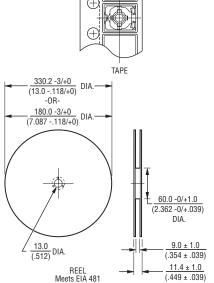
Standard Resistance Table

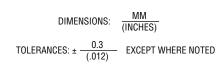
Resistance (Ohms)	Resistance Code
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1.000.000	105

Popular distribution resistance values listed in boldface.

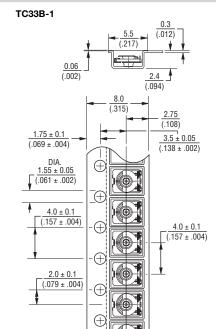
Packaging Specifications

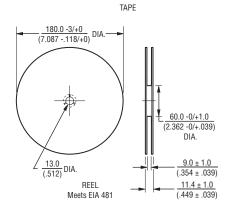






(.449 ± .039)





REV. 06/11